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Name: M. Umer farooq | Quiz Subject:
Biology

Time Remaining: 45/45 (Minutes)

Q.1

Test 4 Biological Molecules

Biology Unit Wise

Evaporation of 2ml out of one liter of water lowers the temperature of the remaining 998ml by:

(a) 4°C

(b) 10°C

(c) 1°C

(d) 2°C


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Correct Answer:

☐ A ☐ B ☐ C ☐ D

Next

 No internet connection

Time Remaining: 44/45 (Minutes)

Q.2

Test 4 Biological Molecules

Biology Unit Wise

Total number of 'OH' in sucrose is:

(a) 11

(b) 8

(c) 10

(d) 9

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Correct Answer:



A



B



C



D

Next

Back



Time Remaining: 44/45 (Minutes)

Q.3

Test 4 Biological Molecules

Biology Unit Wise

Milk sugar is:

- (a) Monosaccharide (b) Disaccharide
(c) Oligosaccharide (d) Polysaccharide

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
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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back

 No internet connection

Time Remaining: 44/45 (Minutes)

Q.4

Test 4 Biological Molecules

Biology Unit Wise

Which of the following carbohydrate does not give colour with iodine?

- (a) Amylose (b) Amylopectin
(c) Glycogen (d) Cellulose

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back



Time Remaining: 43/45 (Minutes)

Q.5

Test 4 Biological Molecules

Biology Unit Wise

A reducing sugar is that which has:

- (a) Free aldehyde group
- (b) Free aldehyde or ketone group
- (c) Free ketone group
- (d) None of these

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Correct Answer:



A



B



C



D

Next

Back

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Time Remaining: 42/45 (Minutes)

Q.6

Test 4 Biological Molecules

Biology Unit Wise

Which biomolecule has most of the carbon of biosphere?

- (a) Chitin (b) Starch
(c) Cellulose (d) Glycogen

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back



Time Remaining: 42/45 (Minutes)

Q.7

Test 4 Biological Molecules

Biology Unit Wise

Tetroses are rare in nature and they occur in some:

- (a) Fungi
- (b) Bacteria
- (c) Protists
- (d) Bryophytes

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back



Time Remaining: 42/45 (Minutes)

Q.8

Test 4 Biological Molecules

Biology Unit Wise

From the biological point of view, the most important hexose is:

- (a) Glucose (b) Fructose
(c) Mannose (d) Galactose

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back

Time Remaining: 41/45 (Minutes)

Q.9

Test 4 Biological Molecules

Biology Unit Wise

Dextrins are:

- | | |
|----------------------|-------------------|
| (a) Proteins | (b) Lipids |
| (c) Derived proteins | (d) Carbohydrates |

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back



Time Remaining: 41/45 (Minutes)

Q.10

Test 4 Biological Molecules

Biology Unit Wise

The most synthesized substance in nature by living organisms is:

- (a) Chitin (b) Starch
(c) Cellulose (d) Glycogen

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Correct Answer:



A



B



C



D

Next

Back



Time Remaining 41/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

How many molecules of water are released during the polymerization of a 20 monomer-long cellulose molecule?

(a) 10

(b) 19

(c) 20

(d) 40

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Correct Answer:



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Time Remaining 40/45 (Minutes)

112

Test 4 Biological Molecules

Biology Unit Wise

One which is not the true polymer of its monomers:

- (a) DNA (b) Proteins
(c) Lipids (d) None of these

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Correct Answer:



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Time Remaining 40/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

Lipids are Insoluble in water because lipid molecules are:

- (a) Hydrophilic (b) Hydrophobic
(c) Neutral (d) None of these

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Correct Answer:



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Time Remaining 39/45 (Minutes)

Test 4 Biological Molecules

Biology Unit Wise

Phosphatidic acid is composed of:

- (a) 2 glycerol, 2 fatty acids & 1 phosphoric acid
- (b) 2 glycerol, 1 fatty acids & 1 phosphoric acid
- (c) 1 glycerol, 2 fatty acids & 1 phosphoric acid
- (d) 2 glycerol, 1 fatty acids & 2 phosphoric acid

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Time Remaining 39/45 (Minutes)

115

Test 4 Biological Molecules

Biology Unit Wise

In phospholipids, a nitrogenous base (e.g., choline) is attached to _____ in phosphatidic acid:

- (a) Phosphoric acid (b) Glycerol
(c) Fatty acids (d) All the above

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Correct Answer:



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Time Remaining 38/45 (Minutes)

116

Test 4 Biological Molecules

Biology Unit Wise

Which of the following correctly describes the properties of acetic acid?

- (a) Highest melting point, maximum solubility
- (b) Lowest melting point, minimum solubility
- (c) Highest melting point, minimum solubility
- (d) Lowest melting point, maximum solubility

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Time Remaining 38/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

A compound related to fatty acid is:

- | | |
|--------------|------------|
| (a) Dextrin | (b) Chitin |
| (c) Lecithin | (d) Lignin |

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Correct Answer:



A



B



C



D

Next

Back

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Time Remaining 38/45 (Minutes)

118

Test 4 Biological Molecules

Biology Unit Wise

Alcohol + Acetic acid \longrightarrow ? + Water

- (a) Aldehyde group (b) Fatty acid
(c) Ester (d) Lipid

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Correct Answer:



Next

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Time Remaining 37/45 (Minutes)

Test 4 Biological Molecules

Biology Unit Wise

_____ the smallest amino acid, has a hydrogen atom as the R group.

- | | |
|-------------|-------------|
| (a) Valine | (b) Proline |
| (c) Glycine | (d) Alanine |

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No internet connection

Time Remaining 37/45 (Minutes)**20****Test 4 Biological Molecules****Biology Unit Wise****Which about haemoglobin chains is not true?**

- (a) It contains 4 polypeptide chains
- (b) It consists of 571 amino acids
- (c) Each β -chain contains 146 amino acids
- (d) It is a protein

STAR INSTITUTE LAHORE[Click Here if Image Doesn't Load](#)**Correct Answer:****Next****Back**



Time Remaining 37/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

The most important structure in haemoglobin would be:

- | | |
|--------------|----------------|
| (a) Primary | (b) Secondary |
| (c) Tertiary | (d) Quaternary |

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Correct Answer:



Next

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Time Remaining 36/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

A dipeptide has:

- (a) 2 amino acids and 1 peptide bond
- (b) 2 amino acids and 2 peptide bonds
- (c) 2 amino acids and 3 peptide bonds
- (d) 2 amino acids and 4 peptide bonds

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Correct Answer:



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21

**Time Remaining 36/45 (Minutes)**

Test 4 Biological Molecules

Biology Unit Wise

Myoglobin is a protein with _____ structure:

- (a) Primary (b) Secondary
(c) Tertiary (d) Quaternary

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No internet connection

Time Remaining 36/45 (Minutes)

Test 4 Biological Molecules

Biology Unit Wise

Which of the following is not an amino acid?

- | | |
|--------------|----------------|
| (a) Arginine | (b) Lysine |
| (c) Thymine | (d) Tryptophan |

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No internet connection

Time Remaining 35/45 (Minutes)**Q25****Test 4 Biological Molecules****Biology Unit Wise**

A protein with only one polypeptide lacks which structure:

- | | |
|--------------|----------------|
| (a) Primary | (b) Secondary |
| (c) Tertiary | (d) Quaternary |

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No internet connection

Time Remaining 35/45 (Minutes)**26****Test 4 Biological Molecules****Biology Unit Wise****The sequence of atoms in a peptide bond is:**(a) $-C-N-N-C-$ (b) $-C-C-N-C-$ (c) $-C-C-C-N-$ (d) $-N-C-C-C-$ **STAR INSTITUTE LAHORE**[Click Here if Image Doesn't Load](#)**Correct Answer:****A****B****C****D****Next****Back**



Time Remaining 35/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

The Insulin has two polypeptide chains α & β . The number of amino acids in each chain is

(a) $\alpha=21$, $\beta=30$

(b) $\alpha=30$, $\beta=21$

(c) $\alpha=141$, $\beta=146$

(d) $\alpha=146$, $\beta=141$

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Correct Answer:



A



B



C



D

Next

Back



Time Remaining 35/45 (Minutes)

Q.28

Test 4 Biological Molecules

Biology Unit Wise

A sequence of amino acids may end in either an amino group ($-\text{NH}_2$) or a carboxyl group ($-\text{COOH}$). What is the theoretical number of chemically different dipeptides that may be assembled from 20 different amino acids?

(a) 40

(b) 170

(c) 160

(d) 400

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Correct Answer



A



B



C



D

Next

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Time Remaining 35/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

Ribonucleic acid is a polymer of purine and pyrimidine ribonucleotides linked together by:

- (a) Hydrogen bond
- (b) Ester bonds
- (c) 3'-5' Phosphodiester linkages
- (d) 5'-3' Phosphodiester linkages

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Correct Answer:



Next

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Time Remaining 34/45 (Minutes)

1:30

Test 4 Biological Molecules

Biology Unit Wise

In terms of DNA and RNA structure, what is a nucleotide?

- (a) A nucleotide is a heterocyclic base
- (b) A nucleotide is a sugar molecule covalently bonded to a heterocyclic base
- (c) A nucleotide is a sugar molecule bonded to phosphate group/s and a heterocyclic base
- (d) A nucleotide is a heterocyclic base bonded to phosphate group/s

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Correct Answer:



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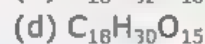
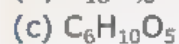
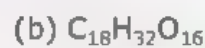
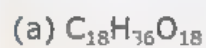
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Time Remaining 34/45 (Minutes)

Test 4 Biological Molecules

Biology Unit Wise

The molecular formula for glucose is $C_6H_{12}O_6$. What would be the molecular formula for a molecule made by linking three glucose molecules together by dehydration reactions?

**STAR INSTITUTE LAHORE**[Click Here if Image Doesn't Load](#)**Correct Answer:**

A



B



C



D

Next**Back**



Time Remaining 34/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

Starch is composed of:

- (a) Branched amylopectin and branched amylose
- (b) Unbranched amylopectin and unbranched amylose
- (c) Branched amylopectin and unbranched amylose
- (d) Unbranched amylopectin and branched amylose

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Correct Answer:



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Time Remaining 33/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

A glycosidic linkage is analogous to which of the following in proteins?

- (a) An amino group (b) A peptide bond
(c) A disulfide bond (d) A β -pleated sheet

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Correct Answer:



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Time Remaining 33/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

Relative abundance of RNA in cell:

- (a) tRNA>rRNA>mRNA
- (b) mRNA>tRNA>rRNA
- (c) rRNA>tRNA>mRNA
- (d) rRNA>mRNA>tRNA

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Correct Answer:



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Time Remaining 33/45 (Minutes)

035

Test 4 Biological Molecules

Biology Unit Wise

Which of the following statement is incorrect regarding RNA?

- (a) RNA is single stranded
- (b) RNA is the only genetic material in viruses
- (c) RNA is the genetic material in some viruses
- (d) All of these

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Correct Answer:



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Time Remaining 32/45 (Minutes)

36

Test 4 Biological Molecules

Biology Unit Wise

The bonds involved in RNA:

- (a) Hydrogen bonds
- (b) Phosphodiester bonds
- (c) Both 'a' & 'b'
- (d) None of these

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Correct Answer:



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Time Remaining 31/45 (Minutes)



Test 4 Biological Molecules

Biology Unit Wise

Saturated fats:

- (a) Are more common in plants than in animals
- (b) Have multiple double bonds in the carbon chains of their fatty acids
- (c) Are generally liquid at room temperature
- (d) Contain more hydrogen than unsaturated fats that consist of the same number of carbon atoms

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Correct Answer:



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**Time Remaining 31/45 (Minutes)****Q35****Test 4 Biological Molecules****Biology Unit Wise****Adenosine diphosphate contains _____ high-energy bond(s):**

(a) One

(b) Two

(c) Three

(d) Four

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No internet connection

Time Remaining 31/45 (Minutes)**Test 4 Biological Molecules****Biology Unit Wise**

The chemical properties of amino acids are determined by their:

- (a) Amino group
- (b) Carboxylic acid group
- (c) Alkyl group
- (d) Alpha carbon

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Time Remaining 31/45 (Minutes)

Q40

Test 4 Biological Molecules

Biology Unit Wise

Hemoglobin Is:

- (a) A tertiary protein with two polypeptides
- (b) A quaternary protein with two polypeptides
- (c) A tertiary protein with four polypeptides
- (d) A quaternary protein with four polypeptides

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Correct Answer:



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02

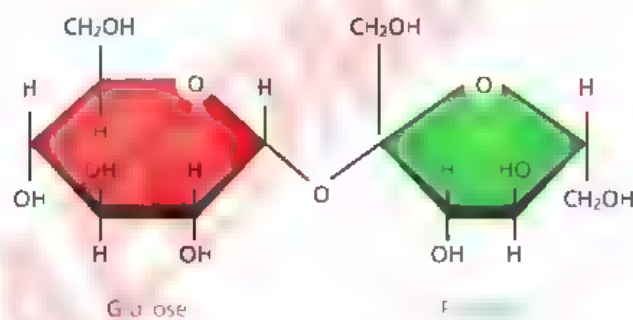
Total number of 'OH' in sucrose is:

(a) 11

(b) 8

(c) 10

(d) 9



Unmute

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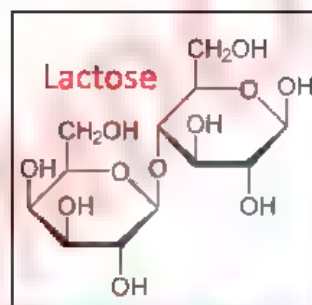
Participants 28

More

03

Milk sugar is:

- (a) Monosaccharide
- (b) Disaccharide**
- (c) Oligosaccharide
- (d) Polysaccharide



Learning Outcome

Lactose = Glucose + Galactose

04

Which of the following carbohydrate does not give colour with iodine?

- (a) Amylose
(b) Amylopectin
(c) Glycogen
(d) Cellulose

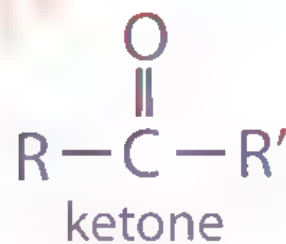
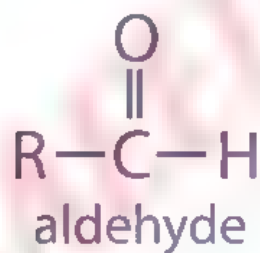
Learning Outcome

- Starches give blue colour with iodine.
- Glycogen gives red colour with iodine.
- Cellulose gives no colour with iodine.

05

A reducing sugar is that which has:

- (a) Free aldehyde group
- (b) Free aldehyde or ketone group**
- (c) Free ketone group
- (d) None of these



06

Which biomolecule has most of the carbon of biosphere?

- (a) Chitin
- (b) Starch
- (c) Cellulose**
- (d) Glycogen

07

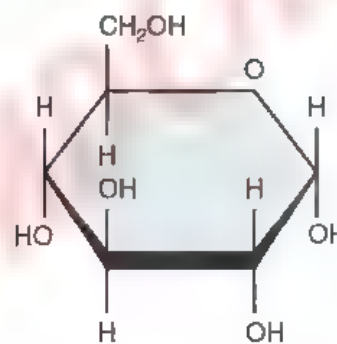
Tetroses are rare in nature and they occur in some:

- (a) Fungi
- (b) Bacteria**
- (c) Protists
- (d) Bryophytes

08

From the biological point of view, the most important hexose is:

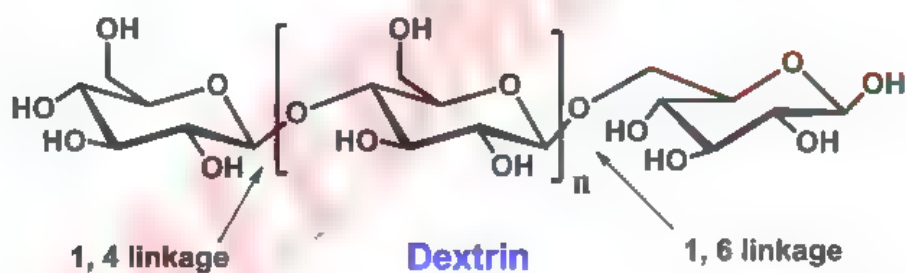
- (a) **Glucose**
- (b) Fructose
- (c) Mannose
- (d) Galactose



09

Dextrins are:

- (a) Proteins (b) Lipids
(c) Derived proteins (d) Carbohydrates



10

The most synthesized substance in nature by living organisms is:

- (a) Chitin
- (b) Starch
- (c) Cellulose**
- (d) Glycogen

11

How many molecules of water are released during the polymerization of a 20 monomer-long cellulose molecule?

- (a) 10
- (b) 19**
- (c) 20
- (d) 40

12

One which is not the true polymer of its monomers:

- (a) DNA
- (b) Proteins
- (c) Lipids**
- (d) None of these

13

Lipids are insoluble in water because lipid molecules are:

- (a) Hydrophilic
- (b) Hydrophobic**
- (c) Neutral
- (d) None of these

14

Phosphatidic acid is composed of:

- (a) 2 glycerol, 2 fatty acids & 1 phosphoric acid
- (b) 2 glycerol, 1 fatty acids & 1 phosphoric acid
- (c) 1 glycerol, 2 fatty acids & 1 phosphoric acid**
- (d) 2 glycerol, 1 fatty acids & 2 phosphoric acid

See PAGE # 26 of F.Sc Part 1 Text Book

15

In phospholipids, a nitrogenous base (e.g. choline) is attached to _____ in phosphatidic acid:

- (a) **Phosphoric acid**
- (b) Glycerol
- (c) Fatty acids
- (d) All the above

See PAGE # 26 of F.Sc Part 1 Text Book

16

Which of the following correctly describes the properties of acetic acid?

- (a) Highest melting point, maximum solubility
- (b) Lowest melting point, minimum solubility**
- (c) Highest melting point, minimum solubility
- (d) Lowest melting point, maximum solubility

Learning Outcome

Solubility and melting points of fatty acids in the organic solvents increase with increasing number of carbon atoms in chain.

17

A compound related to fatty acid is:

- (a) Dextrin
- (b) Chitin
- (c) **Lecithin**
- (d) Lignin

18

Alcohol + Acetic acid \longrightarrow ? + Water

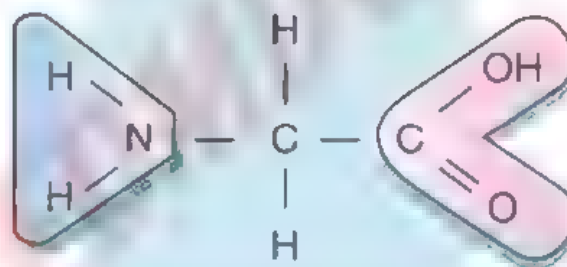
- (a) Aldehyde group (b) Fatty acid
(c) **Ester** (d) Lipid



19

_____ the smallest amino acid, has a hydrogen atom as the R group.

- (a) Valine
- (b) Proline
- (c) Glycine**
- (d) Alanine



20

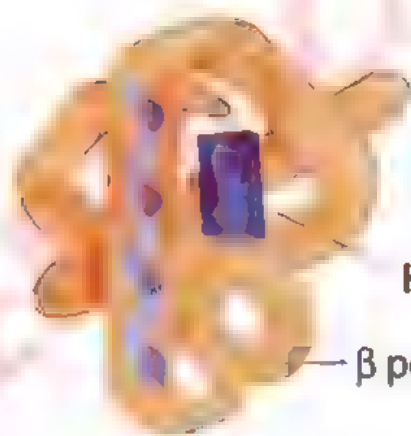
Which about haemoglobin chains is not true?

- (a) It contains 4 polypeptide chains
- (b) It consists of 571 amino acids**
- (c) Each β -chain contains 146 amino acids
- (d) It is a protein

21

The most important structure in haemoglobin would be:

- (a) Primary
- (b) Secondary
- (c) Tertiary**
- (d) Quaternary



Heme

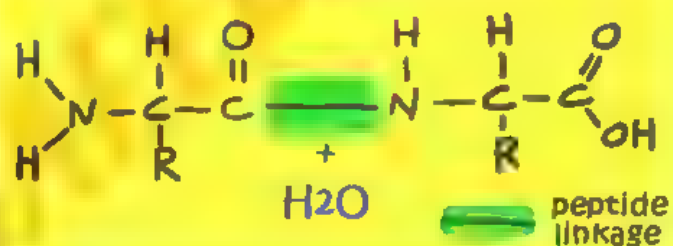
β polypeptide

22

A dipeptide has:

- (a) 2 amino acids and 1 peptide bond
- (b) 2 amino acids and 2 peptide bonds
- (c) 2 amino acids and 3 peptide bonds
- (d) 2 amino acids and 4 peptide bonds

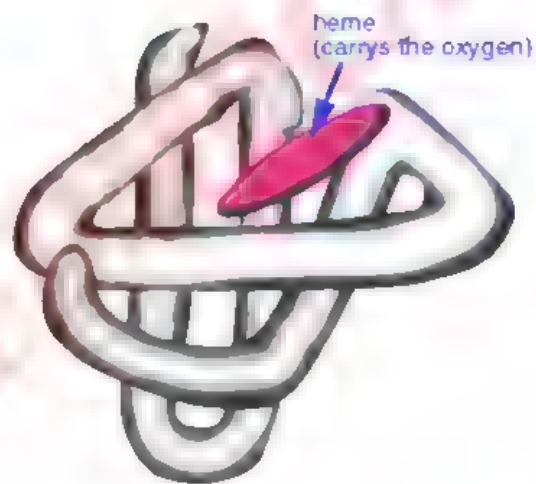
Dipeptide



23

Myoglobin is a protein with _____ structure:

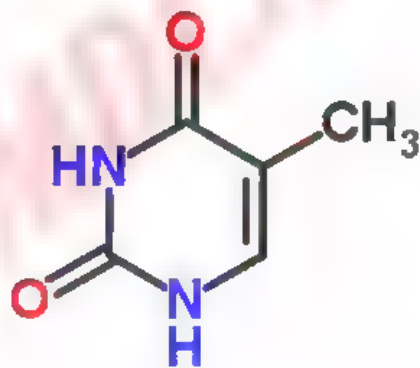
- (a) Primary
- (b) Secondary
- (c) Tertiary**
- (d) Quaternary



24

Which of the following is not an amino acid?

- (a) Arginine
- (b) Lysine
- (c) **Thymine**
- (d) Tryptophan



25

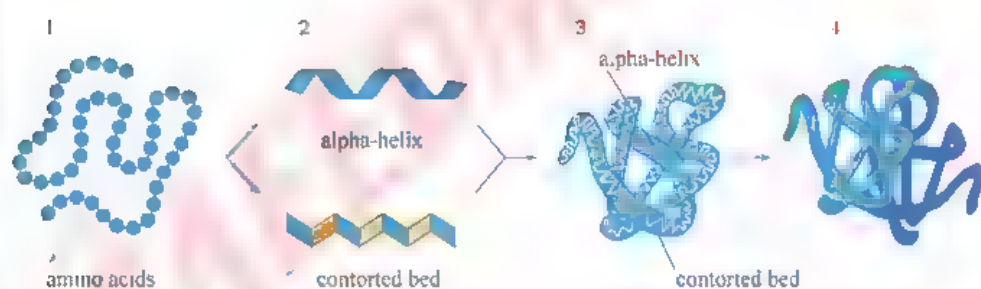
A protein with only one polypeptide lacks which structure:

(a) Primary

(b) Secondary

(c) Tertiary

(d) Quaternary



27

The insulin has two polypeptide chains α & β . The number of amino acids in each chain is:

(a) $\alpha=21$, $\beta=30$

(b) $\alpha=30$, $\beta=21$

(c) $\alpha=141$, $\beta=146$

(d) $\alpha=146$, $\beta=141$

28

A sequence of amino acids may end in either an amino group ($-\text{NH}_2$) or a carboxyl group ($-\text{COOH}$). What is the theoretical number of chemically different **dipeptides** that may be assembled from 20 different amino acids?

(A, G, C, U)

- (a) 40
- (b) 170
- (c) 160
- (d) 400

$$\begin{aligned} (20)^2 \\ = 20 \times 20 \\ = 400 \end{aligned}$$

$$\begin{aligned} 4^3 \\ = 4 \times 4 \times 4 \\ = 64 \end{aligned}$$

Ribonucleic acid is a polymer of purine and pyrimidine ribonucleotides linked together by:

- (a) Hydrogen bond
(b) Ester bonds
(c) 3'-5' Phosphodiester linkages
(d) 5'-3' Phosphodiester linkages

30

In terms of DNA and RNA structure, what is a nucleotide?

- (a) A nucleotide is a heterocyclic base
- (b) A nucleotide is a sugar molecule covalently bonded to a heterocyclic base
- (c) A nucleotide is a sugar molecule bonded to phosphate group/s and a heterocyclic base**
- (d) A nucleotide is a heterocyclic base bonded to phosphate group(s)

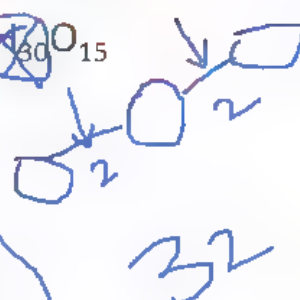
31

The molecular formula for glucose is $C_6H_{12}O_6$. What would be the molecular formula for a molecule made by linking three glucose molecules together by dehydration reactions?



$$C_6 \times 3 = 18$$

$$H_{12} \times 3 = 36$$



32

Starch is composed of:

- (a) Branched amylopectin and branched amylose
- (b) Unbranched amylopectin and unbranched amylose
- (c) Branched amylopectin and unbranched amylose**
- (d) Unbranched amylopectin and branched amylose

33

A glycosidic linkage is analogous to which of the following in proteins?

- (a) An amino group
- (b) A peptide bond**
- (c) A disulfide bond
- (d) A β -pleated sheet

34

Relative abundance of RNA in cell:

(a) tRNA>rRNA>mRNA

(b) mRNA>tRNA>rRNA

(c) **rRNA>tRNA>mRNA**

(d) rRNA>mRNA>tRNA

Learning Outcome

rRNA = 80%

tRNA = 10-20%

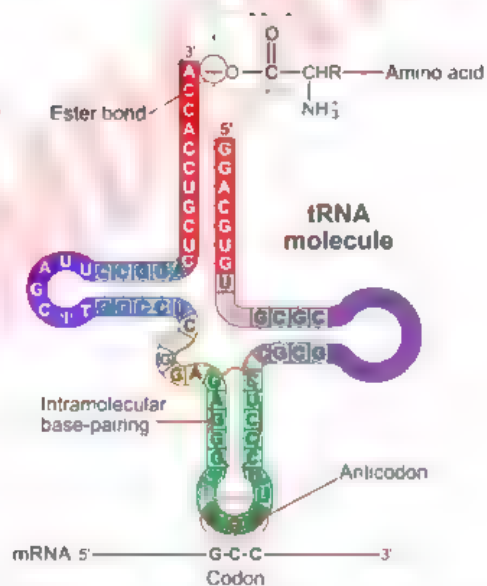
mRNA = 3-4%

(a) RNA is single stranded
(b) **RNA is the only genetic material in viruses**
(c) RNA is the genetic material in some viruses
(d) All of these

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The bonds involved in RNA:

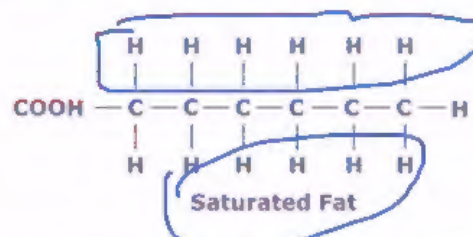
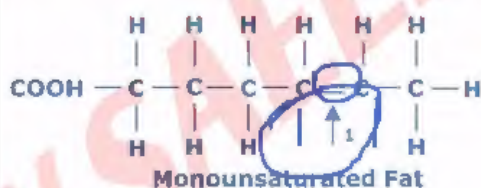
- (a) Hydrogen bonds
- (b) Phosphodiester bonds**
- (c) Both 'a' & 'b'
- (d) None of these



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Saturated fats:

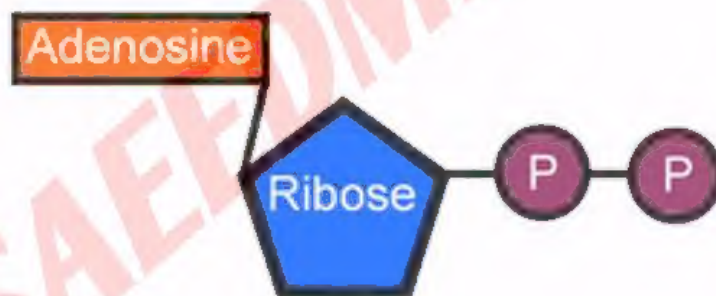
- (a) Are more common in plants than in animals
- (b) Have multiple double bonds in the carbon chains of their fatty acids
- (c) Are generally liquid at room temperature
- (d) Contain more hydrogen than unsaturated fats that consist of the same number of carbon atoms**



38

Adenosine diphosphate contains _____ high-energy bond(s):

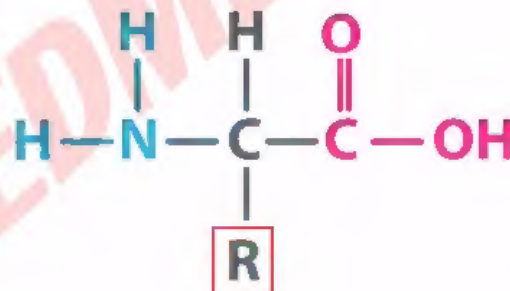
- (a) One (b) Two
(c) Three (d) Four



39

The chemical properties of amino acids are determined by their:

- (a) Amino group
- (b) Carboxylic acid group
- (c) Alkyl group**
- (d) Alpha carbon



40

Hemoglobin is:

- (a) A tertiary protein with two polypeptides
- (b) A quaternary protein with two polypeptides
- (c) A tertiary protein with four polypeptides
- (d) A quaternary protein with four polypeptides**

